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AN INDEX TO CIRCULARS 1 TO 100 OF
THE BUREAU OF ENTOMOLOGY.

BY

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BUREAU OF ENTOMOLOGY.

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The first circular of the present series, or what was formerly known as the second series, of the Bureau of Entomology was issued in 1891, while Circular 99 was issued in 1908. The circulars of the first series, something over 40 in number, were nearly all merely circular letters and had only a temporary value. Very few of these first-series circulars are now known to exist, and even the titles of most of them are now unknown.

While some of the circulars of the present, or second, series were in the nature of emergency circulars, and were therefore soon discontinued or superseded, yet very many others were popular summaries, containing in condensed form all the important data available concerning the particular insects discussed. They have therefore a distinct value to the student and worker in economic entomology as well as to the farmer, forester, horticulturist, and general reader. Many of the insects treated have not yet been made the subjects of bulletins or been considered in other publications of the department, and much information contained in these circulars is therefore not to be found elsewhere.

To make this information more easily available and to prevent it from being overlooked, the present index has been prepared, and it is hoped that it will be of use to all who read or consult the circulars of the bureau.

For convenience the index itself is preceded by a list of circulars 1 to 100, with their revisions. This list may be considered as complete and final, since the policy of issuing revised editions of circulars, i. e., under the original serial number, has been discontinued and no more such will be published.

Where circulars have gone through one or more revised editions the latest edition is the one indexed.

LIST OF CIRCULARS 1 TO 100 OF THE BUREAU OF ENTOMOLOGY.

- No. 1. Condensed information concerning some of the more important insecticides. pp. 7. May, 1891.
- No. 2. The hop plant-louse [*Phorodon humuli* Schr.] and the remedies to be used against it. pp. 7, figs. 5, pl. 1. June, 1891.
- No. 3. An important enemy to fruit trees. The San Jose scale [*Aspidiotus perniciosus* Comst.]: Its appearance in the eastern United States; measures to be taken to prevent its spread and to destroy it. By L. O. Howard. pp. 10, figs. 5. April 4, 1893.
- No. 4. The army worm (*Leucania unipuncta* Haw.). By L. O. Howard. pp. 5, figs. 3. June 16, 1894.
- No. 5. The carpet beetle or "Buffalo moth" (*Anthrenus scrophulariæ* L.). By L. O. Howard. pp. 4, fig. 1. September 8, 1894.
- Same, revised edition. pp. 4, fig. 1. Issued August 10, 1908.
- No. 6. The Mexican cotton-boll weevil (*Anthonomus grandis* Boh.). By L. O. Howard. pp. 5, figs. 3. April 2, 1895.
- Same, Spanish edition. pp. 6, figs. 2. April 2, 1895.
- No. 7. The pear-tree psylla (*Psylla pyricola* Foerst.). By C. L. Marlatt. pp. 8, figs. 6. May 1, 1895.
- No. 8. The imported elm leaf-beetle (*Galerucella luteola* Müll.; *Galeruca xanthomelæna* Schrank). By C. L. Marlatt. pp. 4, fig. 1. May 23, 1895.
- Same, revised edition. pp. 6, fig. 1. Issued September 22, 1908.
- No. 9. Cankerworms [*Paleacrita vernata* Peck and (*Anisopteryx*) *Alsophila pometaria* Harr.]. By D. W. Coquillett. pp. 4, figs. 4. May 24, 1895.
- No. 10. The Harlequin cabbage bug, or calico back (*Murgantia histrionica* Hahn). By L. O. Howard. pp. 2, fig. 1. May 24, 1895.
- No. 11. The rose-chafar [*Macrodactylus subspinosus* Fab.]. By F. H. Chittenden. pp. 4, fig. 1. May 21, 1895.
- Same, revised. pp. 4, fig. 1. Issued July 6, 1909.
- No. 12. The Hessian fly (*Cecidomyia destructor* Say). By C. L. Marlatt. pp. 4. July 26, 1895.
- Same, revised edition. pp. 4. April 13, 1900. (Superseded by No. 70.)
- No. 13. Mosquitoes and fleas. By L. O. Howard. pp. 4. February 1, 1896.
- Same, revised edition. November 15, 1897.
- No. 14. (Revision of No. 6.) The Mexican cotton-boll weevil (*Anthonomus grandis* Boh.). By L. O. Howard. pp. 8, figs. 5. February 12, 1896.
- Same, Spanish edition. pp. 8, figs. 5. May 18, 1896.
- No. 15. General work against insects which defoliate shade trees in cities and towns. By L. O. Howard. pp. 4. March 6, 1896. (In advance from an article entitled "The shade-tree insect problem in the eastern United States," to be published in the Yearbook of the department for 1895.)
- No. 16. The larger corn stalk-borer (*Diatræa saccharalis* Fab.). By L. O. Howard. pp. 3, figs. 3. August 13, 1896.
- No. 17. The peach-tree borer (*Sannina exitiosa* Say). By C. L. Marlatt. pp. 4, fig. 1. September 30, 1896. (Superseded by No. 54.)
- No. 18. (Revision of No. 14.) The Mexican cotton-boll weevil (*Anthonomus grandis* Boh.). By L. O. Howard. pp. 8, figs. 5. February 4, 1897.

Same, Spanish edition. pp. 10.

Same, German edition. pp. 11.

No. 19. The clover mite (*Bryobia pratensis* Garman). By C. L. Marlatt. pp. 4, fig. 1. March 5, 1897.

Same, second edition. pp. 4, fig. 1. July 19, 1897.

No. 20. The woolly aphid of the apple (*Schizoneura lanigera* Hausmann). By C. L. Marlatt. pp. 6, figs. 2. March 15, 1897.

Same, revised edition. pp. 6, figs. 2. June 23, 1908.

No. 21. The strawberry weevil (*Anthonomus signatus* Say). By F. H. Chittenden. pp. 7, figs. 4. March 18, 1897.

Same, revised edition. pp. 10, figs. 5. Issued September 19, 1908.

No. 22. The periodical cicada in 1897. By E. A. Schwarz. pp. 4. May 1, 1897.

No. 23. The buffalo tree-hopper (*Ceresa bubalus* Fab.). By C. L. Marlatt. pp. 4, figs. 2. May 10, 1897.

No. 24. The two-lined chestnut borer (*Agrilus bilineatus* Weber). By F. H. Chittenden. pp. 8, fig. 1. July 14, 1897.

Same, revised edition. pp. 7, fig. 1. Issued January 20, 1909.

No. 25. The ox warble (*Hypoderma lineata* Villers). By C. L. Marlatt. pp. 10, figs. 10. July 19, 1897.

No. 26. The pear slug (*Eriocampoides limacina* Retzius). By C. L. Marlatt. pp. 7, figs. 4. August 28, 1897.

No. 27. The Mexican cotton-boll weevil in 1897. By L. O. Howard. pp. 7. December 31, 1897.

No. 28. The box-elder plant-bug (*Leptocoris trivittatus* Say). By L. O. Howard. pp. 3, fig. 1. January 8, 1898.

No. 29. The fruit-tree bark-beetle (*Scolytus rugulosus* Ratz.). By F. H. Chittenden. pp. 8, figs. 5. March 25, 1898.

Same, revised edition. March 25, 1903.

No. 30. The periodical cicada in 1898. By E. A. Schwarz. pp. 3. April 1, 1898.

No. 31. The striped cucumber beetle (*Diabrotica vittata* Fab.). By F. H. Chittenden. pp. 7, figs. 2. April 26, 1898.

Same, revised edition. pp. 6, figs. 2. June 9, 1903.

Same, second revision. pp. 8, figs. 2. Issued May 22, 1909.

No. 32. The larger apple-tree borers. By F. H. Chittenden. pp. 12, figs. 3. July 1, 1898.

Same, revised edition. pp. 12, figs. 3. August 30, 1902.

Same, second revise. pp. 11, figs. 3. April 8, 1905.

Same, third revise. pp. 11, figs. 3. Issued December 10, 1907.

No. 33. Remedial work against the Mexican cotton-boll weevil. By L. O. Howard. pp. 6. July 1, 1898. (Supplementary to circulars 18 and 27.)

No. 34. House ants (*Monomorium pharaonis* et al.). By C. L. Marlatt. pp. 4, figs. 3. July 6, 1898.

Same, revise. pp. 4, figs. 3. Issued June 12, 1907.

No. 35. House flies (*Musca domestica* et al.). By L. O. Howard. pp. 8, figs. 6. July 11, 1898. (Superseded by No. 71.)

No. 36. The true clothes moths (*Tinea pellionella* et al.). By C. L. Marlatt. pp. 8, figs. 3. July 18, 1898.

Same, revise. pp. 8, figs. 3. Issued January 15, 1908.

No. 37. The use of hydrocyanic-acid gas for fumigating greenhouses and cold frames. By Albert F. Woods and P. H. Dorsett. pp. 10, figs. 3. January 10, 1899.

Same, corrected print. (Compare page 8.) pp. 10, figs. 3. January 10, 1899.

Same, revised edition. pp. 10, figs. 3. October 2, 1903.

Same, second revise. pp. 11, figs. 3. Issued April 3, 1908.

- No. 38. The squash-vine borer (*Melittia satyriniformis* Hbn.). By F. H. Chittenden. pp. 6, figs. 2. April 22, 1899.
Same, revised edition. pp. 6, figs. 2. November 19, 1903.
Same, second revise. pp. 6, figs. 2. Issued September 3, 1908.
- No. 39. The common squash bug (*Anasa tristis* De G.). By F. H. Chittenden. pp. 5, figs. 3. May 5, 1899.
Same, revised edition. pp. 5, figs. 3. March 23, 1905.
Same, second revise. pp. 5, figs. 3. Issued July 28, 1908.
- No. 40. How to distinguish the different mosquitoes of North America. By L. O. Howard (with "Synoptic tables of the North American mosquitoes," by D. W. Coquillett). pp. 8, figs. 3. February 20, 1900.
- No. 41. Regulations of foreign governments regarding importation of American plants, trees, and fruits. By L. O. Howard. pp. 4. August 24, 1900.
- No. 42. How to control the San Jose scale. By C. L. Marlatt. pp. 6. October 22, 1900.
Same, revised. pp. 6. May 17, 1902.
Same, second edition. May 26, 1902.
Same, third edition. April 6, 1903.
Same, fourth edition. pp. 8. March 10, 1906.
Same, fifth edition. pp. 7. [March 31] 1909.
- No. 43. The destructive green pea louse (*Nectarophora destructor* Johns.). By F. H. Chittenden. pp. 8, figs. 3. May 23, 1901.
Same, second edition [entitled "The pea aphid (*Macrosiphum pisi* Kalt.)"]. pp. 10, figs. 7. Issued February 25, 1909.
- No. 44. The periodical cicada in 1902. By W. D. Hunter. pp. 4, figs. 2. March 13, 1902.
- No. 45. A new nomenclature for the broods of the periodical cicada. By C. L. Marlatt. pp. 8. May 1, 1902.
- No. 46. Hydrocyanic-acid gas against household insects. By L. O. Howard. pp. 6. June 22, 1902.
Same, revised edition. pp. 7. Issued February 20, 1907. Revised by C. L. Marlatt.
- No. 47. The bedbug (*Cimex lectularius* Linn.). By C. L. Marlatt. pp. 8, figs. 3. June 15, 1902.
Same, revised edition. pp. 8, figs. 3. Issued February 26, 1907.
- No. 48. The house centipede (*Scutigera forceps* Raf.). By C. L. Marlatt. pp. 4, figs. 2. June 10, 1902.
- No. 49. The silver fish (*Lepisma saccharina* Linn.). By C. L. Marlatt. pp. 4, figs. 2. June 20, 1902.
- No. 50. The white ant (*Termes flavipes* Koll.). By C. L. Marlatt. pp. 8, figs. 4. June 30, 1902.
Same, revised edition. pp. 8, figs. 4. Issued January 27, 1908.
- No. 51. Cockroaches. By C. L. Marlatt. pp. 15, figs. 5. June 23, 1902.
Same, revised. pp. 14, figs. 5. Issued June 23, 1908.
- No. 52. The lime, sulphur, and salt wash. By C. L. Marlatt. pp. 8. February 20, 1903.
Same, second edition. March 18, 1904.
- No. 53. The yellow-winged locust (*Camnula pellucida* Scudd.). By C. B. Simpson. pp. 3, fig. 1. May 12, 1903.
- No. 54. The peach-tree borer (*Sannina exitiosa* Say). By C. L. Marlatt. pp. 6, fig. 1. October 19, 1903.
- No. 55. Powder-post injury to seasoned wood products. By A. D. Hopkins. pp. 5, fig. 1. November 20, 1903.
- No. 56. The most important step in the cultural system of controlling the boll weevil. By W. D. Hunter. pp. 7. October 10, 1904. (Superseded by No. 95.)

- No. 57. The greenhouse white fly (*Aleyrodes vaporariorum* Westw.). By A. W. Morrill. pp. 9, fig. 1. February 15, 1905.
- No. 58. Report on the gypsy moth and the brown-tail moth, July, 1904. By C. L. Marlatt. pp. 12, pl. 1, map 1. March 21, 1905.
- No. 59. The corn root-worms. By F. H. Chittenden. pp. 8, figs. 3. March 23, 1905.
- No. 60. The imported cabbage worm (*Pontia rapæ* Linn.). By F. H. Chittenden. pp. 8, figs. 6. April 28, 1905.
- No. 61. Black check in western hemlock. By H. E. Burke. pp. 10, figs. 5. May 24, 1905.
- No. 62. The cabbage hair-worm. By F. H. Chittenden. pp. 6, fig. 1. May 17, 1905.
- Same, revised edition. pp. 6, fig. 1. Issued July 28, 1908.
- No. 63. Root-maggots and how to control them. By F. H. Chittenden. pp. 7, figs. 5. June 6, 1905.
- Same, second edition. pp. 7, figs. 5. February 12, 1906.
- No. 64. The cottony maple scale (*Pulvinaria innumerabilis* Rathvon). By J. G. Sanders. pp. 6, figs. 4. September 7, 1905.
- No. 65. The cotton red spider (*Tetranychus gloveri* Bks.). By E. S. G. Titus. pp. 5, figs. 2. October 30, 1905.
- No. 66. The joint-worm (*Isosoma tritici* Fitch). By F. M. Webster. pp. 5, figs. 5, October 20, 1905.
- Same, revised edition. pp. 7, figs. 6. Issued September 21, 1908.
- No. 67. The clover root-borer (*Hylastinus obscurus* Marsham). By F. M. Webster. pp. 5, figs. 4. December 28, 1905.
- No. 68. The tobacco thrips and remedies to prevent "white veins" in wrapper tobacco (*Euthrips nicotianæ* Hinds). By W. A. Hooker. pp. 5, figs. 2. February 26, 1906.
- No. 69. Some insects affecting the production of red clover seed. By F. M. Webster. pp. 9, figs. 8. April 12, 1906.
- No. 70. The Hessian fly (*Mayetiola* [*Cecidomyia*] *destructor* Say). By F. M. Webster. pp. 16, figs. 16. April 14, 1906.
- No. 71. (Revision of Circular No. 35.) House flies (*Musca domestica* et al.). By L. O. Howard. pp. 9, figs. 9. March 27, 1906.
- Same, revised edition. pp. 10, figs. 9. September 21, 1906.
- No. 72. Key to the known larvæ of the mosquitoes of the United States. By Harrison G. Dyar. pp. 6, fig. 1. April 27, 1906.
- No. 73. The plum curculio (*Conotrachelus nenuphar* Herbst). By Fred Johnson and A. A. Girault. pp. 10, figs. 5. April 14, 1906.
- No. 74. The periodical cicada in 1906. By C. L. Marlatt. pp. 5, figs. 3. April 16, 1906.
- No. 75. Requirements to be complied with by nurserymen or others who make interstate shipments of nursery stock. By A. F. Burgess. pp. 6. July 5, 1906.
- Same, revised edition. pp. 7. Issued July 24, 1908.
- Same, second revision. pp. 9. Issued August 7, 1909.
- No. 76. List of publications of the Bureau of Entomology. Compiled by Mabel Colcord. pp. 21. September 24, 1906.
- Same, revised to March 1, 1908. pp. 28.
- Same, revised to May 1, 1909. pp. 29.
- Same, revised to February 1, 1910. pp. 32.
- No. 77. Harvest mites, or "chiggers." By F. H. Chittenden. pp. 6, figs. 3. September 29, 1906.
- No. 78. The slender seed-corn ground-beetle (*Clivina impressifrons* Lec.). By F. M. Webster. pp. 5, figs. 2. October 4, 1906.
- No. 79. The brood diseases of bees. By E. F. Phillips. pp. 5. October 3, 1906.

- No. 80. The melon aphid (*Aphis gossypii* Glov.). By F. H. Chittenden. pp. 16, figs. 6. November 14, 1906.
- No. 81. The aphides affecting the apple. By A. L. Quaintance. pp. 10, figs. 8. Issued March 9, 1907.
- No. 82. Pinhole injury to girdled cypress in the South Atlantic and Gulf States. By A. D. Hopkins. pp. 4, fig. 1. Issued January 2, 1907.
- No. 83. The locust borer [*Cyllene robinæ* Forst.] and methods for its control. By A. D. Hopkins. pp. 8, figs. 4. Issued February 19, 1907.
- No. 84. The grasshopper problem and alfalfa culture. By F. M. Webster. pp. 10, figs. 8. Issued April 6, 1907.
- No. 85. The spring grain-aphid (*Toxoptera graminum* Rond.). By F. M. Webster. pp. 7, figs. 3. Issued March 29, 1907. (See also No. 93.)
- No. 86. The corn leaf-aphid [*Aphis maidis* Fitch] and corn root-aphid [*Aphis maidiradicis* Forbes]. By F. M. Webster. pp. 13, figs. 4. Issued May 6, 1907.
- No. 87. The Colorado potato beetle (*Leptinotarsa decemlineata* Say). By F. H. Chittenden. pp. 15, figs. 6. Issued June 3, 1907.
- No. 88. The terrapin scale (*Eulecanium nigrofasciatum* Pergande). By J. G. Sanders. pp. 4, figs. 3. Issued May 14, 1907.
- No. 89. The periodical cicada in 1907 (*Tibicen septendecim* L., race *tredecim* Walsh-Riley). By C. L. Marlatt. pp. 4, figs. 3. Issued May 14, 1907.
- No. 90. The white-pine weevil [*Pissodes strobi* Peck]. By A. D. Hopkins. pp. 8, figs. 6. Issued June 18, 1907.
- No. 91. Note on the occurrence of the North American fever tick [(*Boophilus*) *Margarus annulatus* Say] on sheep. By W. D. Hunter. pp. 3. Issued July 3, 1907.
- No. 92. Mites and lice on poultry. By Nathan Banks. pp. 8, figs. 6. Issued September 25, 1907.
- No. 93. The spring grain-aphid or so-called "green bug" (*Toxoptera graminum* Rond.). By F. M. Webster. pp. 18, figs. 7. Issued August 22, 1907.
- Same, revised. pp. 22, figs. 10. Issued June 23, 1909.
- No. 94. The cause of American foul brood [*Bacillus larvæ*]. By G. F. White. pp. 4. Issued July 29, 1907.
- No. 95. (Revision of Circular No. 56.) The most important step in the control of the boll weevil [*Anthonomus grandis* Boh.]. By W. D. Hunter. pp. 8. Issued October 3, 1907.
- Same, revised edition. pp. 8. Issued September 21, 1908.
- Same, French edition. pp. 11. Issued January 21, 1909.
- No. 96. The catalpa sphinx (*Ceratonia catalpæ* Bdv.). By L. O. Howard and F. H. Chittenden. pp. 7, figs. 2. Issued December 16, 1907.
- No. 97. The bagworm (*Thyridopteryx ephemeraformis* Haw.). By L. O. Howard and F. H. Chittenden. pp. 10, figs. 11. Issued February 6, 1908.
- No. 98. The apple-tree tent caterpillar (*Malacosoma americana* Fab.). By A. L. Quaintance. pp. 8, figs. 4. Issued January 28, 1908.
- No. 99. The nut weevils. By F. H. Chittenden. pp. 15, figs. 14. Issued March 6, 1908.
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